E-6

WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES
ENGINEERING DIVISION

EDWARD H. McNAMARA
COUNTY EXECUTIVE

G.E. SIEMERT, P.E.
DIRECTOR AND COUNTY HIGHWAY ENGINEER
(313) 224-7758

September 5, 1990

U.S. E.P.A.
Mr. Ralph Dollhopf
On-Scene Coordinator
Eastern Response Unit
9311 Groh Road
Grosse Ile, MI 48138

Dear Mr. Dollhopf:

This is in response to the information you requested during our telephone conversation earlier today. I have obtained the following thus far; I will update this response based upon your review of this document.

On Friday, August 24, 1990, a Hazardous Materials Response Team was sent to 15495 Sheldon Road, Northville Township, Michigan, to investigate a chemical spill. The spill was battery acid (sulfuric acid). The estimated volume is less than five gallons. The spill occurred on the basement floor of the powerhouse in an area where there were approximately 60 batteries stored for backup energy supply. This area also had a large hot electrical panel with 5,000 volts. There were also approximately ten 55-gallon drums of labeled liquids, eight of which were unopened. The open drums appear to be motor oil. There were also a number of open containers containing powders. The spill was neutralized with Potash by K & D Environmental Services, Inc., 6470 Beverly Plaza, Romulus, Michigan 48174 313/729-3350, and the building was secured.

On Wednesday, August, 29, 1990, in response to your directions, security guards were added to safeguard the facility.

On Thursday, August 30, 1990, K & D started to clean up the spill material by shoveling the neutralizing material into drums and ventilating the area.

On Tuesday, September 4, 1990, the following materials in overpack drums were transported via a County truck to Central Maintenance Yard at 299000 Goddard Road, Romulus, Michigan 48174. (NOTE: These drums with original seals were opened by K & D when they collected samples.)

* Six 55-gallon drums of Dearsol 30, Dearborn Chemical Company. The hazardous component consists of 77% diesel fuel; the remainder is other materials which

415 CLIFFORD
DETROIT, MI 48226
(313) 224-7600

were added to improve combustion characteristics. According to the manufacturer, this material has not been produced since 1972, and thus pre-dated MSDS requirements. The manufacturer is mailing us all the information that is not protected by trade secret. No MSDS is available.

* Sixty non-leaking lead acid batteries, placed within four plastic overpack drums, the County proposed to sell the batteries under an existing contract.

* One 55-gallon drum of Alkafilm MSDS in overpack is enclosed. The County proposes to use this material in one of its boilers; i.e. use the material for its intended purpose.

* One 55-gallon drum of Dearborn 692 in overpack. The County proposes to use this material in one of its boilers; i.e., use the material for its intended purpose.

* Approximately two gallons of cutting oil. Material is to be used for its intended purpose.

The remainder of the materials were sampled by K & D. K & D split the samples with me. Our samples were submitted to Air Pollution Control Division on Wednesday, September 5, 1990.

On Wednesday, September 5, 1990, Tom Schmelzer appointed me as the County employee in charge of this remediation.

From our telephone conversation earlier today, the following additional steps are proposed:

1. Reinspect the facility to determine containment methods for tunnels entering the powerhouse.

2. Ascertain source of vapors still present in the building. It is my opinion that this was caused by continued reaction between acid and base.

3. Direct additional cleanup of neutralized material; there is still a great amount present on the basement floor. Use of a vacuum as opposed to shovels will be suggested.

4. Advise you of sample analysis results and furnish you copies along with proposed use/disposal.

5. Survey adjacent buildings for hazardous

You will be advised of what activities will be conducted and when, subject to your approval and concurrence. This response is expected to be reviewed by the attached distribution. Corrections, additions and clarifications should be sent to me at Architectural and Facilities Engineering, Neudect Building, 5th Floor, 415 Clifford, Detroit, Michigan 48226. (313/224-7768) FAX 313/224-2609

I swear that the above information is true to the best of my knowledge, information and belief.

Mark L. Manor, CHMM
Hazardous Materials Manager

Distribution:

Tom Wikle, A&FE
Stan Wyre, Bldgs.
Tom Schmelzer, Bldgs.
John Kamphius, Risk Mgmt.
Hank Maciejewski
Robert Biga, Admin.
Martin Atherton
Ted Scott, Risk Mgmt.
Northville Fire Department
K & D Environmental Services, Inc.
GRACE Dearborn, Dearborn Division

MM/jk
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Enclosures

K & D ENVIRONMENTAL SERVICES, INC.
6470 BEVERLY PLAZA
ROMULUS, MICHIGAN 48174
(313) 729-3350

August 31, 1990

Mr. Ralph H. Dollhopf
U.S. E.P.A.
Eastern Response Unit
9311 Groh Road
Grosse Ile, Michigan 48138

re: Wayne County project in Farmington Hills

Dear Sir,

In response to your request for a work and safety plan, I am pleased to inform you that I am mailing copies of our standard procedures.

However, I would like to provide you with a brief summary of our work procedures.

Our first priority is to neutralize any leaking batteries, or areas where the leaking acid has contaminated, with soda ash. We will then place all of the batteries and any acid contaminated materials into plastic over-pack drums. This procedure will be conducted utilizing level "B" protection. We will also be continuously monitoring the air quality while we ventilate using large fans. When we have completed this task we will then place the acid contaminated materials from our roll-off box into over-packs and include them with the battery group.

The next step will be to place the lidless drums into over-pack drums and segregate the drums into groups of comparable materials. This procedure will also be conducted with level "B" protection unless the air quality has improved. We will then sample all of the drums. When sampling is completed we will place all of the drums into over-pack drums and identify all of the drums with corrosive labels. The samples will then be compiled and the compiled samples will be submitted for analysis.

The next order of business will be to gather all of the small containers that are scattered throughout the building and segregate them into comparable groups. We will then take samples of these materials, prior to placing them into over-packs. compile the samples and submit the compiled samples for analytical. The drums will then be appropriately labeled.

The final step, according to the guidelines that you established at the site on 8/29/90, will be to take samples from some bags that were located on the second floor, place the bags into an over-pack, and submit sample for analysis as these bags may contain asbestos.

K & D will then assist Wayne County in choosing proper disposal facilities and methods for these materials. Once disposal approvals are in place, K & D will begin transporting the materials for disposal.

Of course, if we encounter any other hazards or contaminates at this site we will report them to Wayne County and suggest appropriate action.

If you have any further questions or require additional information, please do not hesitate to call.

Respectfully,

Ken Markey

hrw

Material Safety Data Sheet

Emergency Phone
708-438-1800

Section 1 Product Identification

TRADE NAME: DEARBORN 692 | PRODUCT TYPE: Boiler water treatment | CODE IDENT.: 10-517

DOT SHIPPING NAME: Compound Boiler Cleansing, Preserving, Scale Reeving Liquid

Section 2 Hazardous Ingredients

	CAS NUMBER	%	EXPOSURE CRITERIA
Potassium hydroxide (45%)	1310-58-3	< 15	Ceiling limit: 2 mg/m3

HMIS 1-0-0 EPA REGISTRATION NO. NA

Section 3 Physical Data

BOILING POINT, 760 mm Hg	> 212 F	MELTING POINT	NA
FREEZING POINT	30 F	VAPOR PRESSURE	20 mm Hg
SPECIFIC GRAVITY (H_2O = 1)	1.07	SOLUBILITY IN H_2O	complete
VAPOR DENSITY (AIR = 1)	ND	EVAPORATION RATE (Bu Ac = 1)	< 1
% VOLATILES BY VOLUME	ND	pH	9.0 - 10.0

APPEARANCE & ODOR

Brown liquid, characteristic

Section 4 Fire & Explosion Hazard Data

FLASH POINT (& METHOD USED)	FLAMMABLE LIMITS IN AIR % BY VOLUME LOWER	UPPER	AUTO IGNITION TEMPERATURE
NA, water-based product	NA	NA	NA

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARD:

none known

Section 5 Reactivity Data

STABILITY (NORMAL CONDITIONS): Stable | CONDITIONS TO AVOID: Not determined

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2

HAZARDOUS POLYMERIZATION: Will not occur | CONDITIONS TO AVOID: Not applicable

Section 6 Health Hazard Information

TOXICITY INFORMATION.

no TLV established for product, see section 2 for component information.

EFFECTS OF OVEREXPOSURE:

INHALATION: Prolonged inhalation of vapors or mist may irritate nasal passages.

INGESTION: Harmful if swallowed.

SKIN OR EYE CONTACT: Prolonged or frequent skin contact may cause irritation.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove affected persons to fresh air and treat symptoms.

INGESTION: Drink water or citrus juice to neutralize. Contact physician

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and wash before reuse.

EYE CONTACT: Flush with water and seek medical attention.

Section 7 Special Protection Information

VENTILATION REQUIREMENTS
Mechanical ventilation should be adequate

RESPIRATORY PROTECTION (SPECIFY TYPE)
None special

EYE PROTECTION
Safety glasses or goggles

GLOVES
Rubber gloves

OTHER PROTECTIVE CLOTHING AND EQUIPMENT

Long sleeve work shirt and clothing to minimize skin contact.

Section 8 Spill or Leak Procedures

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED

Collect using absorbent, place in container for proper disposal. Flush area of spill with water.

WASTE DISPOSAL METHOD

Dispose using chemical scavenger service in authorized landfill. For additional disposal instructions, contact your state water pollution control agency.

Section 9 Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use and protect from physical damage.
Keep from freezing.

OTHER PRECAUTIONS

For industrial use only.

PREPARED BY: S. Horss DATE: 1/15/88

GRACE Dearborn
Dearborn Division W. R. Grace & Co. - Conn., 300 Genesee Street, Lake Zurich, IL 60047 (708) 438-1800

Material Safety Data Sheet

Emergency Phone
708-438-1800

Section 1 Product Identification

TRADE NAME: ALKAFILM
PRODUCT TYPE: Return Line Treatment
CODE IDENT.: 12-102
DOT SHIPPING NAME: Compound Boiler Cleansing Preserving Scale Removing, Liquid

Section 2 Hazardous Ingredients

	CAS NUMBER	%	EXPOSURE CRITERIA
Cyclohexylamine	108-91-8	< 10	TWA: 10 ppm (skin)
Amine alcohol	124-68-5	< 10	Not established

HMIS 2-0-0 EPA REGISTRATION NO. NA

Section 3 Physical Data

BOILING POINT, 760 mm Hg	> 212 F	MELTING POINT	NA
FREEZING POINT	7 F	VAPOR PRESSURE	ND
SPECIFIC GRAVITY (H_2O = 1)	0.99	SOLUBILITY IN H_2O	Appreciable
VAPOR DENSITY (AIR = 1)	ND	EVAPORATION RATE, (Bu Ac = 1)	< 1
% VOLATILES BY VOLUME	100	pH	11.8

APPEARANCE & ODOR

Yellow liquid with an amine odor

Section 4 Fire & Explosion Hazard Data

FLASH POINT (& METHOD USED)	FLAMMABLE LIMITS IN AIR % BY VOLUME LOWER	UPPER	AUTO IGNITION TEMPERATURE
NA, water-based product	NA	NA	NA

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARD:

None known

Section 5 Reactivity Data

STABILITY (NORMAL CONDITIONS): Stable
CONDITIONS TO AVOID: Extreme heat

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2, oxides of nitrogen

HAZARDOUS POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: Not applicable

Section 6 Health Hazard Information

TOXICITY INFORMATION:

No TLV established for product, see section 2 for component information.

EFFECTS OF OVEREXPOSURE:

INHALATION: Vapor may irritate nasal passages.

INGESTION: May be harmful if swallowed.

SKIN CONTACT: Prolonged or frequent skin contact may cause irritation.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove affected persons to fresh air and treat symptoms.

INGESTION: If conscious, give water or citrus juice to dilute and consult a physician.

SKIN CONTACT: Wash with soap and water immediately. Remove contaminated clothing and wash before reuse.

EYE CONTACT: Flood eyes with water for 15 minutes and contact physician.

Section 7 Special Protection Information

VENTILATION REQUIREMENTS
Use adequate mechanical ventilation.

RESPIRATORY PROTECTION (SPECIFY TYPE)
None special

EYE PROTECTION
Goggles or face shield

GLOVES
Impervious

OTHER PROTECTIVE CLOTHING AND EQUIPMENT

Alkali resistant clothing.

Section 8 Spill or Leak Procedures

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED

Wear protective clothing. Collect using absorbent, place in container for proper disposal. Flush area of spill with water.

WASTE DISPOSAL METHOD

Dispose using chemical scavenger service in authorized landfill. For additional disposal instructions, contact your State water pollution control agency.

Under SARA TITLE III (cyclohexylamine), For Alkafilm - RQ-12 lbs., TPQ 115,000 lbs.

Section 9 Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid freezing. Keep container closed when not in use and protect from physical damage.

OTHER PRECAUTIONS

For industrial use only. Keep out of reach of children.

PREPARED BY: S. Morss DATE: 2/28/89

GRACE Dearborn
Dearborn Division W. R. Grace & Co. - Conn., 300 Genesee Street, Lake Zurich, IL 60047 (708) 438-1800